

This is a RED Stamp

**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

Manual No.: 5-21000-OPS-SW
Procedure No.: Table of Contents, Rev 9
Page: 1 of 2
Effective Date: 01/18/93
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)

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FOR VOLUME IV: SURFACE WATER**

Procedure No.	Title	Rev. No.	Effective Date
SW.01	Surface Water Data Collection Activities	2	05/12/92
DCN 92.01	Assure Quality Control	2	07/21/92
SW.02	Field Measurement of Surface Water Field Parameters	2	05/12/92
DCN 92.01	Allow Change In Instrumentation	2	07/21/92
DCN 92.02	Reduction In Chlorine Testing Requirements	2	07/21/92
SW.03	Surface Water Sampling	2	05/12/92
SW.04	Discharge Measurement	2	05/12/92
SW.05	Base Laboratory Work		To Be Added
SW.06	Sediment Sampling	2	05/12/92
DCN 92.01	Reduction In Personal Protectional Level Due to Local Knowledge	2	07/21/92
DCN 92.02	Clarification of Sampling	2	09/29/92
SW.07	Collection of Tap Water Samples	2	05/12/92

**DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991**

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**5-21000-OPS-SW
Table of Contents, Rev 9
2 of 2
01/18/93
Environmental Management**

<u>Proc. No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
SW.08	Pond Sampling	2	05/12/92
DCN 92.01	Clarification of Sampling	2	10/05/92
SW.09	Industrial Effluent and Pond Discharge Sampling	2	05/12/92
SW.10	Event-Related Surface Water Sampling	1	02/20/92
*DCN 93.01	Table Replacement-Attachment 1	1	01/15/93
SW.11	Operation and Maintenance of Stream-Gaging and Sampling Stations	1	02/20/92
SW.12	Site Description	2	05/12/92
DCN 92.01	Reduction in Unrequired Quality Check	2	07/21/92
SW.13	Bacteriological Water Sampling	2	05/12/92
SW.14	Automatic Sampling		To Be Added
SW.15	River and Ditch Sampling	2	05/12/92
SW.16	Sampling of Incidental Waters	2	05/12/92
SW.17	Pond and Reservoir Bottom Sediment Sampling	0	09/25/92
*DCN 93.01	Decontamination	0	01/15/93
SW.28	Field Locating Effluent Pathways and Drains	0	09/25/92
SW.29	Dye Testing Building Drains	0	09/29/92
SW.30	Field Locating Chemicals of Concern	0	09/25/92
SW.33	Dye Testing Foundation Footing Drains	0	09/29/92

ENVIRONMENTAL MANAGEMENT
DOCUMENT CHANGE NOTICE (DCN)

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Environmental Management SW.10 Rev. 1

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Event Related Surface Water Sampling

Date 1-15-93

DCN Number

12-16-92

92.01 93.01

Expires Upon Incorporation

Procedure Revision Required

☒ Yes ☐ No

Scope Limitation:

None

Item
Number

Page

Step or
Paragraph

Changes

(Use DCN CONTINUATION SHEET for additional space)

1

10

Attachment
1

Replace the table in Attachment 1 with the table attached to this DCN.

Justification (Reason for change - Provide numbers to reference corresponding items above.)

Modification of monitoring strategie for the Event Related Surface Water
Monitoring Program requires change in sampling and sample analysis protocol.

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JUNE 11, 1991

Concurrence

Organization

Req.

Date

Concurrence

Organization

Req.

Date

QAPM

X

1/12/93

User

X

12/16/92

EOM

X

12/24/92

EOM

X

1/5/93

Approval of Responsible manager

Date

Is Posting required?

If Yes, by what date

Date posted

17 Dec 92

☒ Yes ☐ No

upon receipt

Attachment 1: Sample Volume, Container, and Preservation Requirements for Analytes in the Event-Related Surface-Water Monitoring Program.					
	Volume of Individual Samples from Auto-	Volume Required for Analytical Methods	Preservative	Container	Analytical Methods
Total					
Target Analyte			Nitric Acid to		CLP-Metals
List (TAL) Metals	1 Liter	100 ml	pH < 2	Polyethylene	SW846-GFAA
Total			Nitric Acid to		
Non-TAL Metals	1 Liter	100 ml	pH < 2	Polyethylene	CLP & SW846 ICPAES & GFAA
Total			Nitric Acid to		
Radionuclides	4 Liters	4 Liters	pH < 2	Polyethylene	GRRASP
-Pu, U, Am					
-Gross Alpha					
-Gross Beta					
-Tritium (only at GS11, GS12, and GS13)					
Water-Quality Parameters					
-Anions	1 Liter for	1 Liter plus	Cool to 4 degrees	Polyethylene	300.0
-Alkalinity	all con-	250 ml	"	Polyethylene	310.1
-Conductivity	stituents		"	Polyethylene	120.1
-TSS, TDS	plus 250 ml		"	Polyethylene	160.1, 160.2
Nitrate/Nitrite - N	for Total P.		"	Polyethylene	353.1
-Total P			"	Polyethylene	365
BOD	2 Liters	2 liters	Cool to 4 degrees	Poly or Glass	SW846
VOAs	350 ml	3x40ml	Cool to 4 degrees	Glass VOA Vial	CLP
(Manually Collected)			HCl to pH < 2		502.2
TCL Semi-VOAs	350 ml	2x1 L	Cool to 4 degrees	Amber Glass	624
(Manually Collected)					
Pesticides/PCB	350 ml	350 ml	Cool to 4 degrees	Amber Glass	505
(Manually Collected)					
IGRRASP = General Radiochemistry and Routine Analytical Services Protocol					

3431/25/93 This is a #22

CONTROLLED DOCUMENT ENVIRONMENTAL MANAGEMENT
DOCUMENT CHANGE NOTICE (DCN)

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ENVIRONMENTAL MANAGEMENT

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Procedure Number 5-21000-OPS-SW.17.R0

Page 1 of 1

Title	Pond and Reservoir Bottom Sediment Sampling	Date	1-15-93 ^{egf} -12/7/92 ^{WCB} 1/8/92	DCN Number	5-21000-OPS-SW.17.R0 93.01 ^{egf}
Expires	12/7/93 ^{WCB} 1/8/92 1-15-94 ^{egf}	Procedure Revision Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation	OU3				

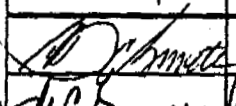
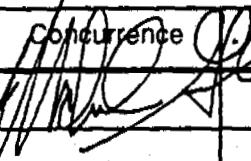
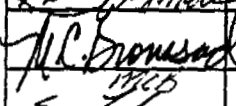
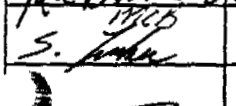
Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	4 of 53	3.1.6	Delete
2	4/53	3.1.7	Delete
3	7/53	6.1.2.4	Delete last sentence "No decontamination is required for offsite sampling."
4	16 of 53	6.1.5.8	Replace with "after the core description is complete, residual material may be disposed of on ground surface."
5	25 of 53	6.3.1.9	Delete last sentence "No decontamination of the boat required for offsite sampling."
6	27 of 53	6.4	a) Delete words "excess sample materials" and "decontamination water." b) Remove 4th bullet "5-21000-OPS-FO.07, Handling of Decontamination Water and Wash Water." c) Remove 5th bullet "5-21000-OPS-FO.09, Handling of Residual Samples." d) Change all references to "ADM" procedures to "OPS" in this section.
7	27 of 53	Parag. 2	^{Change to read} Remove first sentence "initiate Chain of Custody Form per 5-21000-OPS-FO.13 Chain of Custody."


Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)

1. Decontamination and wash water will not be contained for offsite sampling.
2. Residual samples will not be contained for offsite sampling.
3. Decontamination of equipment is required for offsite sampling.
4. Same as 2 above
5. Same as 3 above.
- 6a Same as 1 and 2 above.
- 6b same as 1 above.
- 6c Same as 2 above.
- 6d No longer referred to as "ADM" procedures

~~7. This procedure does not exist.~~

7) FO.24 does NOT exist, appropriate procedure is FO.13 ¹³ ~~13~~

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X	1/12/93		User	X	12/8/92
	EOM	X	1-5-93				
	ERS		1-12-93				

Approval of Responsible Manager	Date	Is Posting Req'd?	If Yes, By What Date?	Date Posted
	12-9-92	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	upon receipt	

DCN Form 001

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JAN 15 1993